

## CLAIMS:

1. A circuit arrangement (1, 41, 51, 61) for operating one or more low-pressure gas discharge lamps (24), comprising a current converter (14) and a driving device (13) for the current converter (14), characterized in that a second current converter (15) generates a voltage (32, 33) phase-shifted by  $180^\circ$ .

5

2. A circuit arrangement (1) for converting DC current into AC current and for feeding one or more low-pressure gas discharge lamps (24) which utilizes a full-bridge switching circuit (2) with power switches (16, 17, 18, 19) as current converters (14, 15) and two resonant circuits (4, 5, 20, 21, 22, 23) per lamp (24), each of the resonant circuits (4, 5, 20, 21, 22, 23) having a series-connected coil (20, 21), one series-connected capacitor (4, 5) and one parallel-connected capacitor (22, 23).

10

3. A circuit arrangement (41) for converting DC current into AC current and for feeding one or more low-pressure gas discharge lamps (24), which utilizes a full-bridge switching circuit (2) including power switches (16, 17, 18, 19) as current converters (14, 15), two series-connected capacitors (42, 43) and two resonant circuits (20, 21, 22, 23) per lamp (24), each of the resonant circuits (20, 21, 22 or 23) having one series-connected coil (20, 21) and one parallel-connected capacitor (22, 23).

15

4. A circuit arrangement (51) for converting DC current into AC current and for feeding one or more low-pressure gas discharge lamps (24) which utilizes a full-bridge switching circuit (2) with power switches (16, 17, 18, 19) as current converters (14, 15) and one resonant circuit (54, 55, 56) per lamp (24), which resonant circuit includes one series-connected coil (55), one series-connected capacitor (54) and one parallel-connected capacitor (56).

20

25

5. A circuit arrangement (61) for converting DC current into AC current and for feeding one or more low-pressure gas discharge lamps (24), which utilizes a full-bridge switching circuit (2) with power switches (16, 17, 18, 19) as current converters (14, 15), two

series-connected capacitors (62, 63) and one resonant circuit (55, 56) per lamp (24), which resonant circuit includes a series-connected coil (55) and a parallel-connected capacitor (56).

6. A circuit arrangement as claimed in one of the preceding claims 2-5,  
5 characterized in that the parallel-connected capacitor (22, 23, 56) is formed at least partly by a parasitic capacitance between the lamp (24) and a metallic part.

7. A liquid crystal display on which a video signal of a computer or of a  
television set can be represented, comprising a circuit arrangement (1, 41, 51, 61) as claimed  
10 in one of the preceding claims 1-6.